Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (original) A medical device, comprising:

an elongate shaft including a proximal section having a distal end, a distal section having a proximal end, and a connector disposed adjacent to and securing the distal end of the proximal section with the proximal end of the distal section; and

a filter coupled to the shaft.

- 2. (original) The medical device of claim 1, wherein the proximal section comprises a first material and the distal section comprises a second material that is different from the first material.
- 3. (original) The medical device of claim 2, wherein the first material comprises stainless steel and the second material includes nickel-titanium alloy.
- 4. (original) The medical device of claim 2, wherein the connector comprises a third material that is compatible for bonding to both the first and second material.
- 5. (original) The medical device of claim 2, wherein the connector is welded to both the first material and to the second material.
- 6. (original) The medical device of claim 2, wherein the first material has a first flexibility and the second material has a second flexibility that is more flexible than the first flexibility.
- 7. (original) The medical device of claim 6, wherein the connector blends the first flexibility with the second flexibility.

- 8. (original) The medical device of claim 1, wherein the connector is disposed over the distal end of the proximal section and the proximal end of the distal section.
- 9. (withdrawn) The medical device of claim 1, further comprising a bismuth alloy connecting material disposed adjacent the connector.
 - 10. (original) An embolic protection filtering device, comprising:
- a filter wire including a core member, the core member including a proximal region and a distal region, the proximal region comprising a first material and including a distal end, the distal region comprising a second material different from the first material and including a proximal end;
- a connector disposed over the distal end of the proximal region and the proximal end of the distal region to secure the proximal and distal regions; and
- a filter assembly coupled to the filter wire, the filter assembly including a filter frame and a filter membrane coupled to the filter frame.
- 11. (original) The filtering device of claim 10, wherein the first material comprises stainless steel.
- 12. (original) The filtering device of claim 10, wherein the second material comprises nickel-titanium alloy.
- 13. (original) The filtering device of claim 10, wherein the connector comprises a third material different from the first material and the second material, the third material being compatible for bonding to both the first and second material.
- 14. (original) The filtering device of claim 13, wherein the third material comprises a nickel-chromium alloy.

- 15. (original) The filtering device of claim 10, wherein a reduced size portion is defined adjacent at least one of the distal end of the proximal region and the proximal end of the distal region.
- 16. (withdrawn) The filtering device of claim 15, wherein the reduced size portion or portions include a taper.
- 17. (withdrawn) The filtering device of claim 15, wherein both the proximal region and the distal region include a reduced size portion, and wherein the reduced size portion of the proximal region and the reduced size portion of the distal region overlap.
- 18. (withdrawn) The filtering device of claim 15, wherein both the proximal region and the distal region include a reduced size portion, and wherein the reduced size portion of the proximal region and the reduced size portion of the distal region have interlocking shapes.
- 19. (original) The filtering device of claim 15, wherein both the proximal region and the distal region include a reduced size portion, and wherein the reduced size portion of the proximal region and the reduced size portion of the distal region are joined together to define a butt joint.
- 20. (original) The filtering device of claim 10, wherein the device further comprises a covering over a portion of the core member.
- 21. (original) The filtering device of claim 20, wherein the covering comprises a polymer sheath.
- 22. (withdrawn) The filtering device of claim 22, wherein the covering comprises a coil.

- 23. (withdrawn) The filtering device of claim 10, wherein the distal region of the core member include a first section and a second section that are connected by a second connector.
 - 24. (original) An embolic protection filtering device, comprising:
- a filter wire including a core member and a covering disposed over at least a portion of the core member, the core member including a proximal portion and a distal portion, the proximal portion having a first flexibility and including a distal end, the distal portion having a second flexibility different from the first flexibility and including a proximal end;
- a connector disposed over the distal end of the proximal portion and the proximal end of the distal portion to secure the proximal and distal portions; and
- a filter assembly coupled to the filter wire, the filter assembly including a filter frame, a filter membrane coupled to the filter frame, and one or more struts extending between the filter frame and the filter wire.
- 25. (original) The filtering device of claim 24, wherein the proximal portion comprises stainless steel.
- 26. (original) The filtering device of claim 24, wherein the distal portion comprises nickel-titanium alloy.
- 27. (original) The filtering device of claim 24, wherein the connector comprises a connector material that is compatible for bonding to both the proximal and distal portions.
- 28. (original) The filtering device of claim 27, wherein the connector material comprises a nickel-chromium alloy.
- 29. (original) The filtering device of claim 24, wherein a reduced size region is defined adjacent at least one of the distal end of the proximal portion and the proximal end of the distal portion.

- 30. (withdrawn) The filtering device of claim 29, wherein the reduced size region or regions include a taper.
- 31. (withdrawn) The filtering device of claim 29, wherein both the proximal portion and the distal portion include a reduced size region, and wherein the reduced size region of the proximal portion and the reduced size region of the distal portion overlap.
- 32. (withdrawn) The filtering device of claim 29, wherein both the proximal portion and the distal portion include a reduced size region, and wherein the reduced size region of the proximal portion and the reduced size region of the distal portion have interlocking shapes.
- 33. (original) The filtering device of claim 29, wherein both the proximal portion and the distal portion include a reduced size region, and wherein the reduced size region of the proximal portion and the reduced size region of the distal portion are joined together to define a butt joint.
- 34. (original) The filtering device of claim 24, wherein the covering comprises a polymer sheath.
- 35. (withdrawn) The filtering device of claim 24, wherein the covering comprises a coil.
- 36. (withdrawn) The filtering device of claim 24, wherein the distal region of the core member include a first section and a second section that are connected by a second connector.
- 37. (withdrawn) The filtering device of claim 24, further comprising a bismuth alloy connector material disposed adjacent the distal end of the proximal portion and the proximal end of the distal portion.

- 38. (original) The filtering device of claim 24, wherein the connector is welded to the proximal portion and to the distal portion.
 - 39. (original) An embolic protection filtering device, comprising:
- a filter wire including a core member and a covering disposed over at least a portion of the core member, the core member including a proximal region and a distal region, the proximal region comprising a first material and including a distal end, the distal region comprising a second material different from the first material and including a proximal end;

means for securing the proximal region with the distal region; and

a filter assembly coupled to the filter wire, the filter assembly including a filter frame, a filter membrane coupled to the filter frame, and one or more struts extending between the filter frame and the filter wire.

- 40. (original) An embolic protection filtering device, comprising:
- a filter wire including a core member and a covering disposed over at least a portion of the core member, the core member including a proximal portion and a distal portion, the proximal portion having a first flexibility and including a distal end, the distal portion comprising a second flexibility different from the first flexibility and including a proximal end;

means for blending the first flexibility with the second flexibility; and

a filter assembly coupled to the filter wire, the filter assembly including a filter frame, a filter membrane coupled to the filter frame, and one or more struts extending between the filter frame and the filter wire.

41-43. (cancelled)

44. (original) A method of using a medical device, comprising:

providing a filtering device, the filtering device including an elongate shaft having a filter coupled thereto, the shaft including a proximal section having a distal end, a distal section having a proximal end, and a connector disposed adjacent to and securing the distal end of the proximal section with the proximal end of the distal section;

inserting the filtering device into a blood vessel;

advancing the filtering device through the blood vessel to a location adjacent a target region; and

deploying the filter.